60-185

TRANSFORMERS™ BARRICADE™ XMODS® EVO

RC Car Starter Kit User's Guide

Please read this user's guide before setting up and using your new car.

Contents

XMODS® Custom RC Starter Kit 3
Your Custom RC Starter Kit Includes 4
Setting Up Your XMODS RC Car 5
Assembling the Car Antenna 5
Changing to Disc Brakes 6
Redistributing the Car's Weight 7
Installing Batteries in the Chassis 8
Installing the Battery in the Control 9
Setting Up Your Controller 10
Changing the Steering Control for Left-Handed Drivers 12
Driving Your Car 13
Steering 13
Speed 14
When You Finish Driving 14
Care 14
Optional Upgrade Kits 16
Using Other XMODS Body Kit 19
Troubleshooting 21
RF Emissions Information 22
Warranty 23

XMODS® Custom RC Starter Kit

You are now the proud owner of the second generation of the highly-acclaimed XMODS. This new evolution series inherits all the features of the first generation and new features:

- A full set of factory parts to assemble your car.
- A digital proportional radio controller with built-in steering and throttle trims for precision driving under varying track conditions.
- An adjustable controller for left- and right-handed drivers.
- A collapsible radio controller for easy carrying and storage.
- Redistributable weight so you can optimize driving performance and handling.
- Low-weight balance for sharp cornering – 20-inch cornering diameter.
- Faster speed – 880 feet per minute!
- Sharper response for acceleration, brake, and steering.

Your RC starter kit is compatible with the TRANSFORMERS™ BARRICADE™ Weapons and Light Kit available at your local ***RadioShack*** store.

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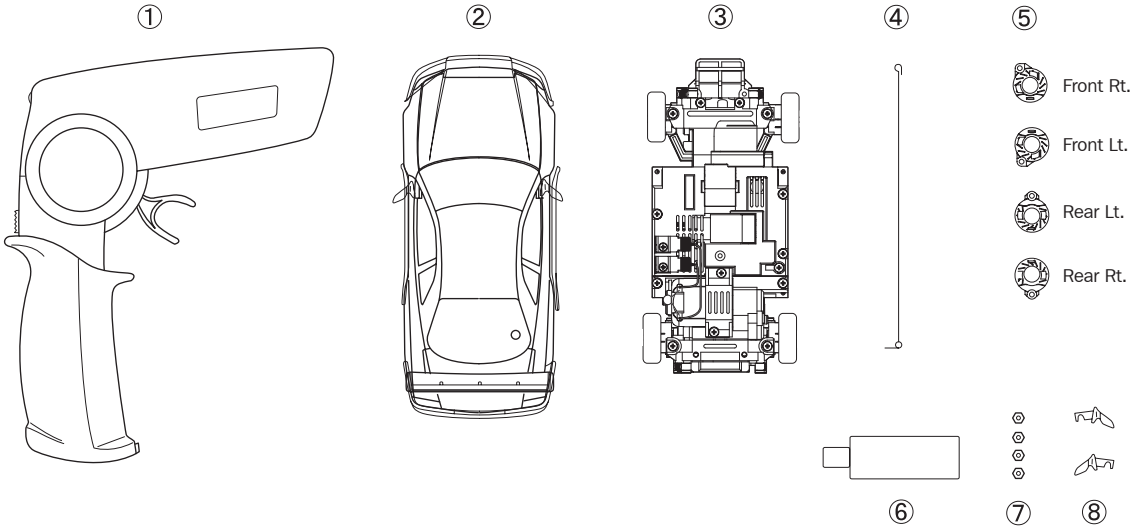
Your Custom RC Starter Kit Includes



1 Controller with Antenna
2 Car Body Assembly
3 Car Chassis Assembly
4 Car Antenna
5 Disc Brakes (4)
6 Lug Wrench
7 Wheel Nuts (4)
8 Spare Left/Right Side Mirrors
9 Screwdriver (not shown)
10 Spare Screws (not shown)

Setting Up Your XMODS RC Car

Assembling the Car Antenna

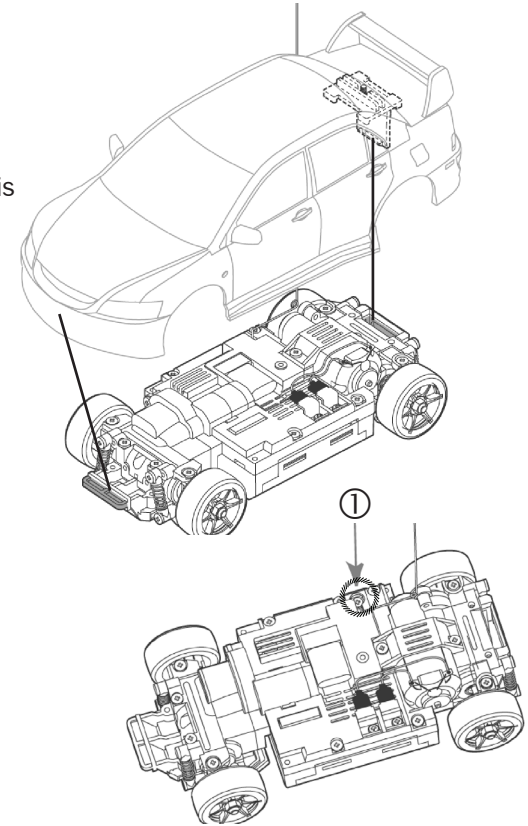
The car body is already assembled on the chassis at the factory. You must remove the body from the chassis to assemble the car antenna.

To remove the body from the chassis, press the lip of the rear attachment gently outward and lift the rear part of the chassis. Then, pull out the nose from the front bumper.

To assemble the car antenna, follow these steps:

1) Unscrew and remove the antenna screw.
2) Thread the screw through the metal loop at the base of the antenna and back to the hole and tighten.
3) Thread the antenna screw back into its slot and tighten.

Note: *Be sure not to lose the washer beneath the antenna's* screw.

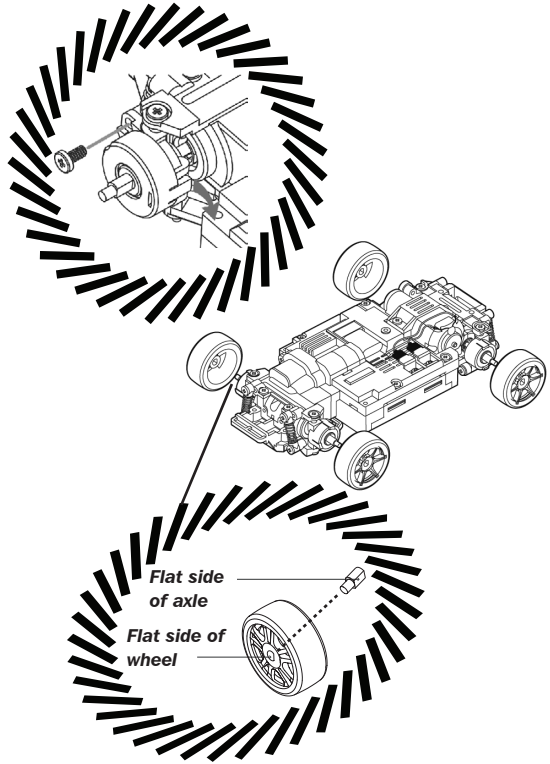


Changing to Disc Brakes

You can change the knuckle covers to the supplied disc brakes.

Note: *Disk brakes are cosmetic only*.

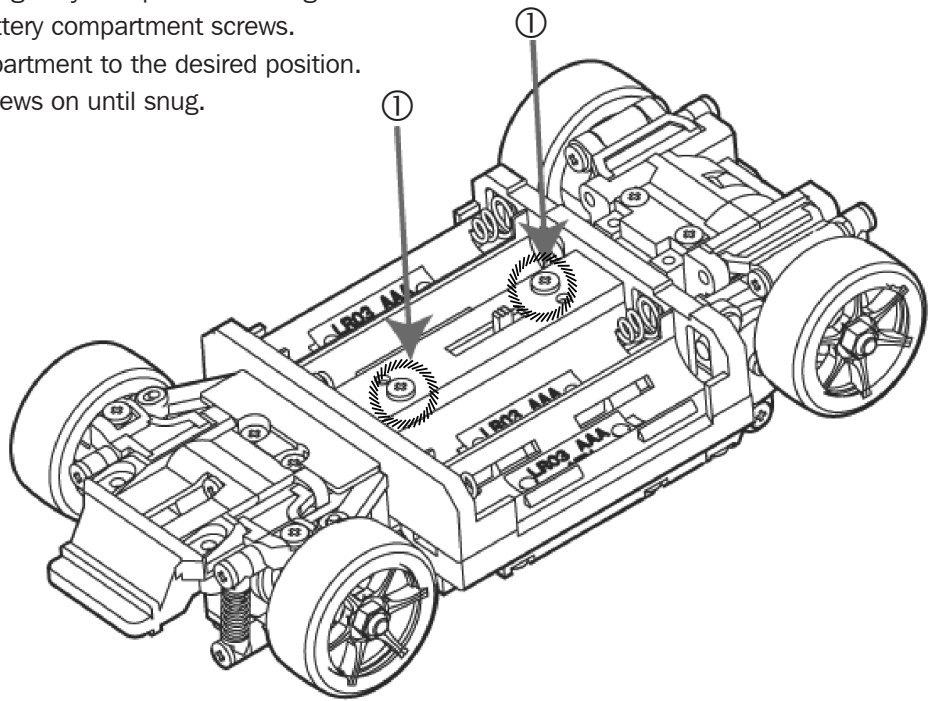
1. Use the supplied lug wrench to remove the wheel's lug nut and remove the wheel.
2. Loosen and remove the knuckle cover screw.
3. Carefully unlatch the claw on the knuckle cover and pull out the wheel shaft along with the knuckle cover. If the wheel shaft comes apart, restore the wheel shaft to its original position.
4. Attach the disc brake and tighten with the screw you just removed. The disc brakes are different for front/rear and left/right: refer to the illustration on page 4.
5. Align the flat side of the wheel with the flat side of the axle and slide the wheel onto the same axle.
6. Screw the wheel nut onto the axle with the lug wrench. Do not overtighten the wheel nuts!
7. Repeat steps 1—6 for each wheel.



Redistributing the Car's Weight

You can shift the weight of the batteries to alter your car's center of gravity for optimal handling.

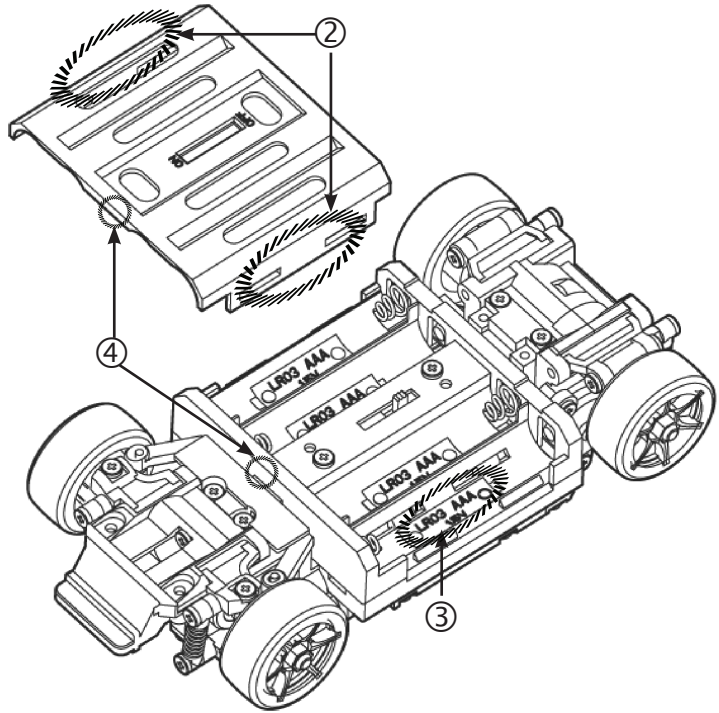
1) Loosen the battery compartment screws.
2) Slide the compartment to the desired position.
3) Tighten the screws on until snug.



Installing Batteries in the Chassis

1) Turn off the power switch on the chassis (rear position).
2) Push either side of the battery compartment cover to disengage the latch, and then lift up the cover.
3) Insert four AAA alkaline or rechargeable* batteries, matching the polarity symbols (+ / -) marked inside.
4) Align the triangles marked on the cover and the compartment and snap the cover back in place.

* *Pick up an optional battery charger kit with rechargeable AAA batteries (230-0350) at* ***RadioShack****.*



Installing the Battery in the Control

Your controller needs a 9V battery. ***RadioShack*** recommends a 9V alkaline battery.

1) Make sure the power switch is in the **Off** (rear) position and the controller is unfolded.
2) Place your finger in the battery compartment cover grip, and slide until the cover unlatches.
3) Place one 9V battery in the compartment, matching the polarity symbols (+ and -) marked inside.
4) Replace the cover and snap it shut.

Note: *If you cannot close the cover, the battery has been inserted incorrectly. Turn it and try again.*

Battery Notes

- If the LED dims or the range of your car decreases, replace the battery.
- Dispose of old batteries promptly and properly. Do not burn or bury batteries.
- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- If you do not plan to use the vehicle for several days, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

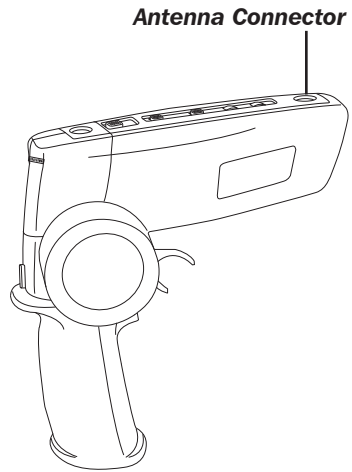
Setting Up Your Controller

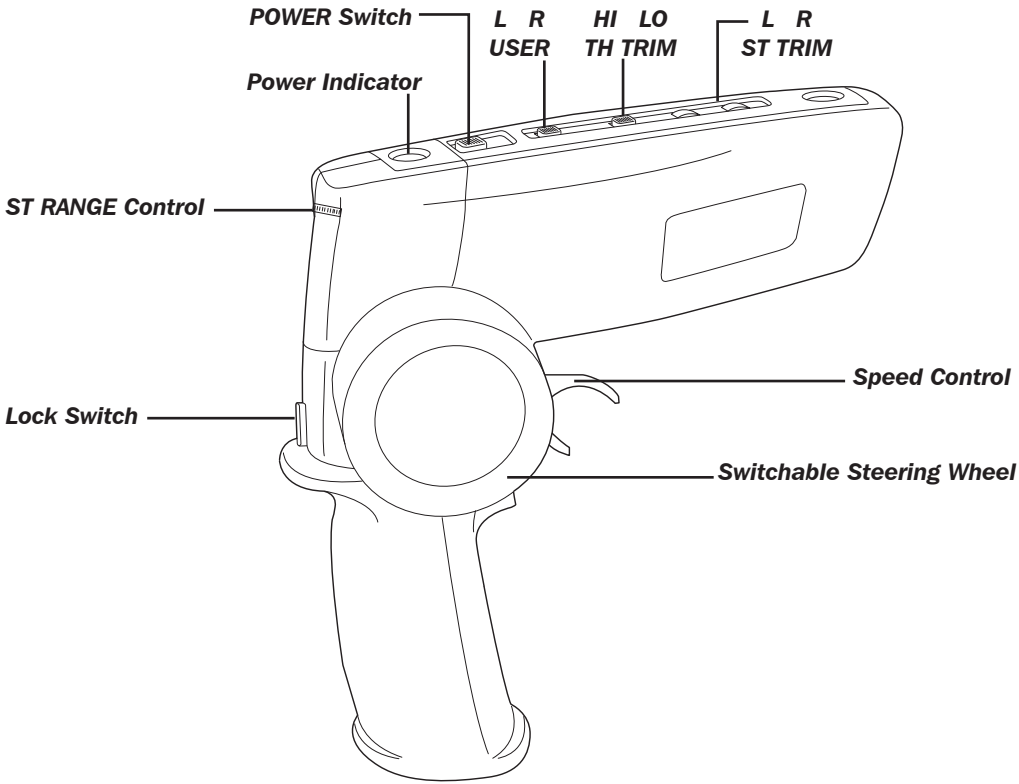
To set up you controller:

1) Unfold the controller.
2) Remove the antenna from its storage channel in the controller. Thread your antenna into the antenna connector on top of the controller, and turn until snug.
3) Fully extend the antenna before driving.

Note: *Use only the supplied antenna.*

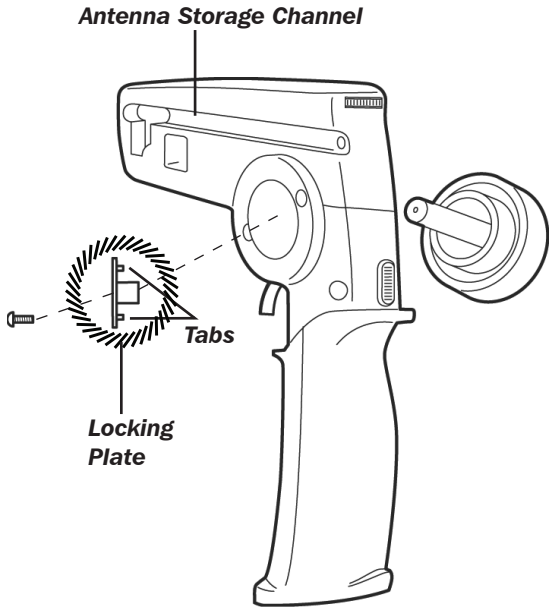
After use, unscrew the antenna, place it in its storage channel in the controller, and slide the **Lock** switch to fold the controller.




POWER Switch
L R
USER
HI LO
TH TRIM
L R
ST TRIM
Power Indicator
ST RANGE Control
Speed Control
Lock Switch
Switchable Steering Wheel

Changing the Steering Control for Left-Handed Drivers

1) Remove the screw on the opposite side of the controller from the steering wheel.
2) Pull out the steering wheel and locking plate, and reinsert each on the other side, keeping the widest channel on the shaft in the bottom position.
3) Align the three tabs on the locking plate with the controller, and then tighten the screw.
4) Set **USER** on top of the controller to **L** for left-handed steering.



Driving Your Car

After setting up your digital proportional controller, turn on your controller and car. The car's power switch is on the bottom of the chassis.

Important! The XMODS Evo series is designed for indoor use only. Do not let dirt, water, or other foreign objects get inside.

Steering

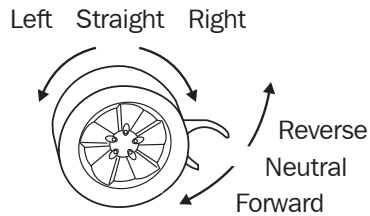
Set **ST RANGE** to adapt your car's steering angle to different track conditions. Set it to **MAX** (right) for sharper turns and to **MIN** (left) for looser turns.

- Rotate the wheel left or right to steer.
- Release the wheel to go straight.

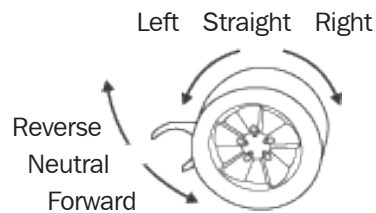
If your car does not drive straight when you release the steering wheel, adjust **ST TRIM** on top of the controller. Place the vehicle on a block or turn it over so the tires do not touch the ground. Turn the transmitter and vehicle on, and press **L** or **R ST TRIM** until the tires point directly forward.

Note: ***ST TRIM*** *will revert to the factory setting when the controller has been turned off.*

RIGHT-HANDED



LEFT-HANDED



Speed

Set **TH TRIM** on top of the controller to control your car's acceleration. Set it to **LO** for maximum maneuverability on a race track with lots of curves and **HI** for maximum speed.

- Pull the trigger to move forward.
- To stop, push the trigger. The electric brake activates and the vehicle stops immediately.
- Release the trigger, and push it again to start driving in reverse.

When You Finish Driving

- **Turn off the car.** Make it a habit to remove the batteries from your vehicle after you finish driving. Batteries can leak chemicals that can destroy electronic parts.
- **Turn off the controller.** To store your controller, unscrew the antenna and place it in its channel in the controller. Then, slide the **Lock** switch to fold your controller.

Care

Keep your vahicle dry; if it gets wet, wipe it dry immediately. Use and store your vehicle only in normal temperature environments. Running your vehicle continuously for long periods can generate high heat levels. Handle your vehicle carefully and do not drop it. Keep your vehicle away from dust and dirt. You can wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with your vehicle's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your vehicle is not performing as it should, take both the car and the controller to your local ***RadioShack*** store for assistance.

Notes

- You cannot operate your car near devices with controllers that use the same frequency. The frequency used in your XMODS is identified by color (and frequency) on the label of the vehicle and controller crystals. See the following frequency chart:

Band 1	26.995 MHz	Brown
Band 2	27.045 MHz	Red
Band 3	27.095 MHz	Orange
Band 4	27.145 MHz	Yellow
Band 5	27.195 MHz	Green
Band 6	27.255 MHz	Blue

- To compete with a friend who has the same vehicle as yours, change the frequency by changing the crystals in your car and controller.

Optional Upgrade Kits

Modify and personalize your XMODS car with optional motor upgrades, body kits, weapons and light kits, steering and suspension upgrades, and more. Check out the entire XMODS line and accessories at ***RadioShack*** and online at www.xmodsRC.com.

BARRICADE™ Weapons and Light Kit Upgrade (60-189)

Decorate your car with weapons and working lights.

Stage 2 Motor Upgrade (60-8566)

Change the speed, handling, and torque of your car with different combinations of gears. This kit contains a new motor with different pitch gears.

Foam Tire and Wheel Upgrade (60-8503)

Enhance your racing and traction with foam tires and custom wheels (4 each).

Performance Tire Upgrade (60-8504)

Adapt to a variety of driving conditions by choosing from four sets of tires with different hardness levels.

High Performance Suspension and Steering Upgrade (60-8556)

Fine tune your car's handling by upgrading the tie-rods, suspension springs, and dampers.

Race Suspension Tuning Upgrade (60-8564)

Low down chassis for better cornering and wider rear tire tread for stable running and cool look with any body style. Lift up your chassis to achieve the rally car image.

All Wheel Drive Upgrade (60-8562)

Increase your driving performance with all-wheel drive.

Custom Wheel Upgrade (60-8526)

Personalize the look of your car with a choice of three realistic wheel designs.

Crystal Racing Set (60-8507)

When paired with crystal bands 1 to 6, you can simultaneously race up to 12 XMODS by selecting a pair of crystals not used by other drivers in your race. Crystal sets available in bands 7 to 12 on www.radioshack.com.

Drifting Kit (60-8538)

Have specially designed tires with cool looking 5 Zigen wheels. Enjoy drifting around tightest corners.

Command Logic™ Ground Effects Kit (60-8565)

Decorate your car with a cool green undercarriage light.

Command Logic™ Light Kit (60-8557)

Add realistic lighting to your vehicle with working LED head lights and tail lights.

Note: *To prevent the light kit wires from touching the tires, stick the wires onto the body with adhesive tape.*

Graphics and Decal Set (60-8538)

Decorate and customize your car with design trim, graphics and official logos.

Precision Metal Bearings Upgrade (60-8567)

Enjoy the smoothest operation and reduced friction by upgrading to metal bearings on the custom RC.

Tool Kit (60-8519)

All the tools you need to upgrade your XMODS Custom RC.

Rechargeable NiMH Battery Upgrade (23-350)

Save time and money over regular alkaline batteries with a battery charger and rechargeable AAA NiMH batteries.

Rally Touring Case (60-8520)

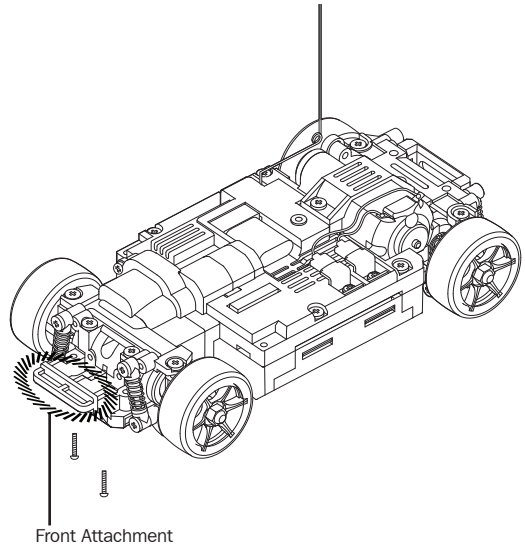
This messenger bag allows you to take your XMODS and accessories everywhere.

Body Kits

Change the body of your XMODS with different bumpers, skirts, hoods, and spoilers. Separate kits are available for numerous car models. Visit your local ***RadioShack*** store or log on to www.radioshack.com and check out the latest body kits.

Using Other XMODS Body Kit

You can use the body of other Evo XMODS (60-8015 and 60-8018) on this XMODS chassis. However, you need to change the front attachment.
Remove the car body from the chassis. Remove the two front attachment screws to detach the front attachment, and change to the original XMODS' front attachment.



- The first generation XMODS chassis does not fit the Evo XMODS bodies.
  ***Note**: Some of the option kits for the first generation XMODS cannot be used for the Evo chassis.*
- Motor Upgrade 1 & 2 (Cat. No. 60-8501 & 60-8502) - use State 2 Motor Upgrade (Cat. No. 60-8566).
- Suspension and Steering Upgrade (Cat. No. 60-8505) - use High Performance Suspension and Steering Upgrade (Cat. No. 60-8556)
- All Wheel Drive Kit (Cat. No. 60-8506) - use All Wheel Drive Upgrade (Cat. No. 60-8562)

- Ground Effect Light Kit (Cat. No. 60-8539) - use Command Logic™ Ground Effects Kit (Cat. No. 60-8565)
- Metal Bearing Kit (Cat. No. 60-8512) - use Precision Metal Bearings Upgrade (Cat. No. 60-8567)
- Carbon Fiber Panel Kit (Cat. No. 60-8537) - no equivalent for Evo chassis.
- The tires and wheels included in the Wheel Upgrade for Hot Rod (Cat. No. 60-8526) can be used on Evo, but the disc brakes in this kit cannot be used. Use the disc brakes supplied with this starter kit.

Troubleshooting

Vehicle does not move or cannot be steered.

- Batteries for the vehicle and/or controller are week or dead. Replace the batteries (or recharge if you are using the rechargeable batteries for vehicle).

  ***Note**: When the power light on the controller blinks, the battery is weak. Replace the battery.*
- Static discharge might have affected the controller. Turn the controller off and then back on.
- Check the wheel mechanisms for lint, thread, hair or dust.
- Move closer to the vehicle and try again.
- CBs and other RC controllers could interfere with your ability to control your car. If this happens, increase the distance between the interfering devices until normal control of your vehicle resumes.

Vehicle does not drive straight even when you release the steering wheel.

- Adjust **ST TRIM** on the controller. See Page 14.

Controlling range seems to become shorter.

- Check the frequency of neighbor driver's vehicle. The same or adjacent frequency vehicles might interference each other.

RF Emissions Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

If you experience problems with your car or transmitter, take it to your local ***RadioShack*** store for assistance or visit www.RadioShack.com to locate a store near you.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

Limited Ninety-Day Warranty

This product is warranted by ***RadioShack*** against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from ***RadioShack*** company-owned stores and authorized ***RadioShack*** franchisees and dealers. EXCEPT AS PROVIDED HEREIN, ***RadioShack*** MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, ***RadioShack*** SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF ***RadioShack*** HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the ***RadioShack*** sales receipt as proof of purchase date to any ***RadioShack*** store. ***RadioShack*** will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of ***RadioShack***. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a ***RadioShack*** Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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